

Title (en)

Unidirectionally stretchable elastomeric trilaminate and method for its manufacture.

Title (de)

Einweg-dehnbare elastomerer dreischichtiger Verbundstoff und Verfahren zur dessen Herstellung.

Title (fr)

Elastomère trilaminate, extensible dans une direction et méthode pour sa fabrication.

Publication

EP 0685586 A3 19960228 (EN)

Application

EP 95303579 A 19950526

Priority

US 24941694 A 19940526

Abstract (en)

[origin: EP0685586A2] An elastomeric trilaminate fabric for use in the waist band or leg cuff of disposable diapers, training pants and other similar products. The trilaminate has a middle elastomeric web sandwiched between a pair of gatherable inelastic webs. The elastomeric web may take the form of a scrim or a film made from elastomeric material. The nonwoven webs are made from staple or bicomponent fibers which have been carded and thermal bonded or spunbond. During manufacture, the nonwoven webs are ultrasonically pattern bonded to each other while the elastomeric web is in a stretched state. The elastomeric web is sandwiched between and captured by the bonded gatherable webs. Upon release of the tension applied to the elastomeric web, it will relax to an unstretched state. As the elastomeric web contracts, the nonwoven webs gather between the bonding points. The result is a stretchable laminate which elastically returns to an unstretched state when tension is removed.

IPC 1-7

D04H 13/00

IPC 8 full level

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CPC (source: EP)

A61F 13/4902 (2013.01); **B29C 65/086** (2013.01); **B29C 66/1122** (2013.01); **B29C 66/433** (2013.01); **B29C 66/7294** (2013.01); **B29C 66/73921** (2013.01); **B29C 66/81433** (2013.01); **B29C 66/81469** (2013.01); **B29C 66/83411** (2013.01); **B29C 66/83415** (2013.01); **D04H 3/045** (2013.01); **D04H 3/14** (2013.01); **B29C 66/71** (2013.01); **B29K 2995/0046** (2013.01); **B29L 2031/4878** (2013.01); **B32B 3/266** (2013.01); **B32B 5/022** (2013.01); **B32B 5/024** (2013.01); **B32B 5/08** (2013.01); **B32B 5/26** (2013.01); **B32B 7/05** (2018.12); **B32B 27/12** (2013.01); **B32B 27/302** (2013.01); **B32B 27/306** (2013.01); **B32B 27/32** (2013.01); **B32B 2262/0253** (2013.01); **B32B 2262/0261** (2013.01); **B32B 2262/0276** (2013.01); **B32B 2262/04** (2013.01); **B32B 2262/12** (2013.01); **B32B 2262/14** (2013.01); **B32B 2274/00** (2013.01); **B32B 2307/51** (2013.01); **B32B 2307/718** (2013.01); **B32B 2307/726** (2013.01); **B32B 2307/728** (2013.01); **B32B 2307/73** (2013.01); **B32B 2555/02** (2013.01)

C-Set (source: EP)

1. **B29C 66/71 + B29K 2023/12**
2. **B29C 66/71 + B29K 2067/00**
3. **B29C 66/71 + B29K 2023/06**
4. **B29C 66/71 + B29K 2077/00**
5. **B29C 66/71 + B29K 2021/003**

Citation (search report)

- [DY] EP 0023804 A1 19810211 - JOHNSON & JOHNSON BABY PROD [US]
- [DY] US 4606964 A 19860819 - WIDEMAN RONALD H [US]

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